

Title (en)

Small brush-use DC motor.

Title (de)

Kleiner Gleichstrommotor mit Bürsten.

Title (fr)

Petit moteur à courant continu avec balais.

Publication

EP 0677913 A1 19951018 (EN)

Application

EP 94105793 A 19940414

Priority

EP 94105793 A 19940414

Abstract (en)

A small brush-use DC motor includes a stator member including a first stator case in which a magnet is disposed; a rotor member including a rotor core on which a coil is wound, a magnetic center of the rotor core being staggered with respect to the magnetic center of the magnet; a commutator unit having a commutator on a conical portion thereof, the commutator rotating together with the rotor member; and brushes held by a second stator case in such a manner that the brushes are brought into contact with the commutator under a predetermined pressure. <IMAGE>

IPC 1-7

H02K 5/14; **H02K 5/167**; **H02K 7/116**; **G10F 1/06**; **H02K 13/00**

IPC 8 full level

G10F 1/06 (2006.01); **H02K 5/14** (2006.01); **H02K 5/167** (2006.01); **H02K 7/116** (2006.01); **H02K 13/00** (2006.01)

CPC (source: EP)

G10F 1/06 (2013.01); **H02K 5/145** (2013.01); **H02K 5/1672** (2013.01); **H02K 5/1675** (2013.01); **H02K 7/1166** (2013.01); **H02K 13/006** (2013.01)

Citation (search report)

- [XAY] DE 4110971 A1 19921008 - BOSCH GMBH ROBERT [DE]
- [Y] FR 2392515 A1 19781222 - MATSUSHITA ELECTRIC WORKS LTD [JP]
- [YA] US 2987638 A 19610606 - FREDERICK LUX
- [A] DE 3911592 A1 19901011 - STANDARD ELEKTRIK LORENZ AG [DE]
- [A] DATABASE WPI Section EI Week 8811, 15 August 1987 Derwent World Patents Index; Class V04, AN 88-076709

Cited by

CN108713095A; JP2019027595A

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